CLAIMS

1-55. (Canceled)

- 56. (Previously presented) A method of treating a central nervous system (CNS) lymphoma comprising the step of administering to a subject diagnosed with said CNS lymphoma a therapeutically effective amount of an anti-CD20 antibody or fragment thereof, wherein the anti-CD20 antibody is administered intrathecally or intraventricularly, and whereby levels of the anti-CD20 antibody are greater in cerebrospinal fluid (CSF) than in serum.
- 57. (Previously presented) The method of claim 56, wherein the CNS lymphoma is selected from the group consisting of: primary CNS lymphoma (PCNSL), leptomeningeal metastases (LM), or Hodgkin's disease with CNS involvement.
- 58. (Previously presented) The method of claim 57, wherein the CNS lymphoma is LM and wherein the anti-CD20 antibody or fragment thereof is administered in combination with cytarabine and thiotepa or methotrexate and ¹¹¹In-diethylenetriamine pentaacetic acid.
- 59. (Previously presented) The method of claim 56, wherein the anti-CD20 antibody fragment is selected from the group consisting of Fab, Fab' and F(ab')₂.
- 60. (Previously presented) The method of claim 56, wherein the anti-CD20 antibody is a human antibody, a humanized antibody, a bispecific antibody, or a chimeric antibody.
- 61. (Canceled) The method of claim 56, wherein the anti-CD20 antibody is administered intrathecally or intraventricularly.
- 62. (Previously presented) The method of claim 56, wherein growth of a CNS lymphoma is reduced.
- 63. (Previously presented) The method of claim 56, wherein the anti-CD20 antibody or fragment comprises human constant regions.
 - 64. (Previously presented) The method of claim 56, wherein the anti-CD20

600156315v1 -2-

antibody or fragment comprises the antigen binding region of rituximab.

- 65. (Previously presented) The method of claim 56, wherein the anti-CD20 antibody or fragment comprises the complementarity determining regions of rituximab.
- 66. (Previously presented) The method of claim 65, wherein the anti-CD20 antibody or fragment comprises the heavy chain variable region and the light chain variable region of rituximab.
- 67. (Previously presented) The method of claim 66, wherein the anti-CD20 antibody is rituximab.
- 68. (Previously presented) The method of claim 56, wherein the anti-CD20 antibody is conjugated to a toxin, drug, or enzyme.
- 69. (Previously presented) A method of treating a central nervous system (CNS) lymphoma comprising the step of administering to a subject diagnosed with said CNS lymphoma a therapeutically effective amount of a radiolabeled anti-CD20 antibody or fragment thereof, wherein the anti-CD20 antibody is administered intrathecally or intraventricularly.
- 70. (Previously presented) The method of claim 69, wherein the isotope is selected from the group consisting of ²¹¹At, ²¹²Bi, ⁶⁷Cu, ¹²³I, ¹³¹I, ¹¹¹In, ³²P, ²¹²Pb, ¹⁸⁶Rh, ¹⁸⁸Re, ¹⁵³Sm, ^{99m}Tc, and ⁹⁰Y.
- 71. (Previously presented) The method of claim 67, wherein the rituximab antibody is conjugated to a toxin, drug, or enzyme.
- 72. (Previously presented) The method of claim 67, wherein the rituximab antibody is radiolabeled.
- 73. (Previously presented) The method of claim 72, wherein the isotope is selected from the group consisting of ²¹¹At, ²¹²Bi, ⁶⁷Cu, ¹²³I, ¹³¹I, ¹¹¹In, ³²P, ²¹²Pb, ¹⁸⁶Rh, ¹⁸⁸Re, ¹⁵³Sm, ^{99m}Tc, and ⁹⁰Y.
 - 74. (Previously presented) The method of claim 73, wherein the isotope is ⁹⁰Y.

600156315v1 -3-